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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/069,746		02/27/2002	Michael Zobel	Mo6985/LeA	3524	
157	7590	04/14/2004		EXAMINER		
BAYER I	OLYME	RS LLC	YOON, TAE H			
100 BAYER ROAD PITTSBURGH, PA 15205				ART UNIT	PAPER NUMBER	
FILISBUI	COII, I A	13203		1714		
				DATE MAILED: 04/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/069,746	ZOBEL ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Tae H Yoon	1714				
Period f	The MAILING DATE of this communication apports or Reply	pears on the cover sheet with the	correspondence add	dress			
THE - External control	HORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r sIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl D period for reply is specified above, the maximum statutory period vure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror e, cause the application to become ABANDON	mely filed ys will be considered timely n the mailing date of this co ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 27 F	eb. 2002, Pre. Amdt.					
2a)□		s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
	Claim(s) 23-43 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 23-43 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.					
Applicat	ion Papers						
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CF				
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ed in this National \$	Stage			
Attachmen	nt(s)			·			
2) 🔲 Notic 3) 🔯 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:		-152)			

Application/Control Number: 10/069,746

Art Unit: 1714

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 24-41 are rejected since the recited "substituted" in claims 24 and 29 is non-enabling until the named functional groups or substituents found in the specification are recited in claims.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 29, 30 and 36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recited "derivatives" in claim 29 is indefinite absent functional groups.

EP(D)M of claim 30 is indefinite and a full chemical name is needed. Improper Markush language is recited in claim 36 and a substitution of "among" with "the group consisting of" is suggested.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/069,746

Art Unit: 1714

Claims 23-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over DE 197 34 661 in view of Paulik (US 5,844,028).

DE teaches a flame retardant polycarbonate composition containing a graft copolymer, a tetrafluoroethylene polymer, the instant inorganic powders such as aluminum oxide-hydroxid having an average particle size of 50 nm and a phosphorous compound in claims and example 4. DE also teaches employing additional additives and thin molded articles.

The instant invention further recites a phosphonate amine as a flame retardant over DE. However, the instant phosphonate amine is well known flame retardant as taught by Paulik, cols. 1-3. Paulik teaches the use of said phosphonate amine with polymers such as polycarbonates at col. 1, line 29.

It would have been obvious to one skilled in the art at the time of invention to utilize said phosphonate amine of Paulik in DE since DE teaches the use of a phosphorous compound and since Paulik teaches the use of said phosphonate amine in polycarbonates as a flame retardant.

Claims 23-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gosens et al (US 5,204,394) in view of DE 197 34 661 and Paulik (US 5,844,028).

Gosens et al teach flame retardant compositions comprising a polycarbonate, a styrene-containing graft copolymer (such as ABS), a tetrafluoroethylene polymer and a flame retardant in abstract and examples. See table on the top of col. 6 for components. Gosens et al teach employing additional additives such as fillers at col. 5,

Application/Control Number: 10/069,746

Art Unit: 1714

lines 46-57, and molded articles of flame retardant polycarbonate composition is well known in the art.

The instant invention further recites instant inorganic powders having an average particle size less than 200 nm, phosphonate amine and the composition of graft copolymer over Gosens et al. However, the instant phosphonate amine is well known flame retardant as taught by Paulik, cols. 1-3. Paulik teaches the use of said phosphonate amine with polymers such as polycarbonates at col. 1, line 29. DE teaches the instant inorganic powders and graft copolymer.

It would have been obvious to one skilled in the art at the time of invention to utilize said phosphonate amine of Paulik and inorganic powders (and ABS graft copolymer) of DE in Gosens et al since Gosens et al teach the use of a phosphorous compound and employing fillers and since Paulik teaches the use of said phosphonate amine in polycarbonates as a flame retardant and since DE teaches the use of said inorganic powders and ABS graft copolymer with polycarbonates.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

Page 5

Art Unit 1714

THY/April 5, 2004